

FROM McANDREWS, HELD, & MALLOY

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**Amendment and Response**  
**Serial No. 10/664,379**  
**Art Unit: 2816**

**Appendix**

Amendment and Response  
Serial No. 10/664,379  
Art Unit: 2816

**ABSTRACT OF THE DISCLOSURE:**

Methods are disclosed for translating or shifting a voltage level of a single ended input. More specifically, the present invention provides a method of translating or shifting a voltage level that doesn't require a complementary input or an additional power supply if the complementary signal isn't available. One embodiment of the method of translating a voltage level of a single-ended input signal using at least one native transistor device having a threshold voltage less than 0V comprises outputting a first voltage level if the single ended input signal is in a first state. A second voltage level is output if the single ended input is in a second state.

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE  
Attorney Docket Number 13546US02

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In re Application of:

Benzer et al.

Serial No.: 10/664,379

Filing Date: September 17, 2003

For: MULTI-LEVEL/SINGLE ENDED  
INPUT LEVEL SHIFTER CIRCUIT

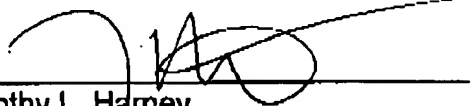
Examiner: Long Nguyen

Confirmation No.: 4562

Art Unit No. 2816

**CERTIFICATE OF FACSIMILE  
TRANSMISSION**

I hereby certify that this  
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\_\_\_\_\_  
Timothy L. Harney  
Reg. No. 38,174

**TERMINAL DISCLAIMER TO OBVIATE ANY DOUBLE  
PATENTING ISSUE (37 C.F.R. 1.321(b))**

Mail Stop Amendment  
Commissioner for Patents  
P. O. Box 1450  
Alexandria, VA 22313-1450

Dear Sir:

**Interest of Entity Making This Disclaimer**

Broadcom Corporation is the assignee of the entire interest in this  
application and in U.S. Patent No. 6,650,167 issued November 18, 2003.

**Disclaimer**

Broadcom Corporation hereby disclaims the terminal part of any patent  
granted on the above-identified application, which would extend beyond the

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expiration date of U.S. Patent No. 6,650,167, and hereby agrees that any patent so granted on the above-identified application shall be enforceable only during such period that said patent is commonly owned with U. S. Patent No. 6,650,167, this agreement to run with any patent granted on the above-identified application and to be binding upon the grantee and its successors or assigns.

It is to be understood from the foregoing language that Broadcom Corporation does not disclaim any terminal part of any patent granted on the above-identified application prior to the expiration date of said U.S. Patent No. 6,650,167, even if the effective life of said U.S. Patent No. 6,650,167 is shortened by any event, subsequent or otherwise (such as, for example, failure to pay a maintenance fee, a court or Patent Office ruling, or a disclaimer by the Patentee).

Fee Status (37 C.F.R. 1.20(d))

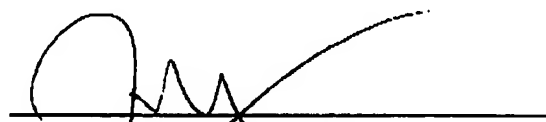
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**EVIDENTIARY STATEMENT**

The evidentiary documents accompanying or referred to in the Terminal Disclaimer have been reviewed by the undersigned and it is certified that to the best of the assignee's knowledge and belief, title is in the assignee seeking to take action.

Date: May 6, 2005



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